



Finish Line Timer

Quickstart Instructions

We thank you for purchasing the eTekGadget SmartLine Finish Line Timer System. The SmartLine Finish Line Setup Program is supplied with the finish line so that operating parameters may be easily set or changed to your preference without having to know the commands.

First Setup SmartLine Finish Line hardware

Install the SmartLine Finish Line Timer over the track using the following steps.

1. Peel off the paper on the double-sided tape and stick the Plexiglas panel to the frame making sure to line up the screw holes. Attach the panel on the opposite side from the SmartLine label with the displays facing the same direction as the label. The double-sided tape gives the panel stability. Attach the display to the frame legs from the back with the screws that are taped onto the legs.
2. Anchor the SmartLine Finish Line Timer to the track using the method that is appropriate for the track you have.
 - Method 1: Screw the side C-brackets to the track and set the legs of the finish line into the brackets Refer to figure 2.1 for a visual example of this method.
 - Method 2: Use the weighted feet on the bottom of the finish line.
 - Method 3: Use the sensor bar and mount it onto the bottom of the timer feet. If we supplied a sensor bar with your finish line, the sensors will be pre-mounted in the sensor bar. The sensor bar we supply has the holes drilled very accurately (within .001 inches). If you need to remove the sensors be sure to push them out from the topside with back of a ¼ or 3/16-inch drill. Do not pull them out from the back or push on the center black part.
3. Plug the display connector into the outside leg of the timer.

IMPORTANT: Be careful not to jam the connector in. It is a keyed connector that fits in one direction. Match up the RED marks on the plug and connector.

4. Plug the power supply into the mating connector on the SmartLine timer unit.
5. Plug the 9-pin RS-232 interface cable into the SmartLine timer and any COM port on your PC. You may also use an RS-232 to USB conversion cable to use a USB connector on your computer.
6. Plug the Reset/Start Switch cable into the leg of the timer. You may mount the Start Switch onto your track or use the timer without it. If you do decide to mount the start switch, the switch must be wired to CLOSE to start the race. The supplied sensor switch has three terminals marked C(Common), NC(Normally Closed) and NO(Normally Open). The preferred method is to have the switch pressed before the race and un-pressed when the race starts. This method requires the use of the C and NC contacts. If your mechanical arrangement mandates that the switch be pressed when the race starts, then move the push-on terminal from the NC contact to the NO contact.
7. Peel the protective paper off the face of the displays.
8. Lastly, using the AC adapter, plug the SmartLine Finish Line timer into a source of power.

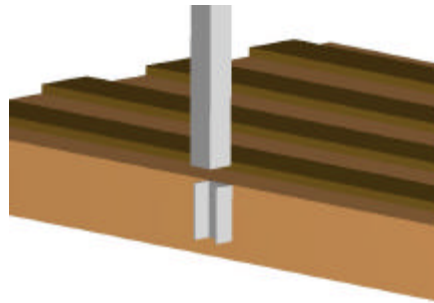


figure 2.1

Install and Run the SmartLine Setup Program

We supply the SmartLine Setup Program (LINESETUP.EXE) on a CD to establish the initial communication and also for updating any settings that you may wish to change.

You may use the LINESETUP program directly from the CD or copy it to any directory of your choice. You only need the one file: LINESETUP.EXE to run this program.

Before you start the LINESETUP.EXE program make sure that the SmartLine Finish Line Timer is plugged into the computer and turned on. Also make sure that you do NOT have any other programs running that use the same COM port, such as a race manager program.

To start the SmartLine Setup Program, simply double-click on the LINESETUP.EXE program name.

Select the COM port you will be using for communication in the Connection box.

Click the 'CONNECT' button. The 'CONNECT' button is currently displaying 'DISCONNECT' in the picture below because it has already been pressed and the status is Connected.

The SmartLine Version should appear at the top of the box. The Track Sensors area will show the state of the sensors and switches. You may check the Auto Update checkbox to obtain continuous readings of the sensors and switches.

SmartLine Settings

SmartLine Version: eTekGadget SmartLine Timer v6.02 (B0112)

Connection

Port: COM1

DISCONNECT

Status: Connected

REFRESH

Track Options:

Lanes: 4

Order: Left to Right

Reset Timer: 10

Output Format Options:

Use DTx000 Format

Lane Indicator: 1

Place Indicator: a

Decimals: 3

Offset if no START switch

Photo Finish Options:

Delay: 14

Width: 26

Track Sensors

Lane 1: OPEN Lane 2: OPEN Lane 3: OPEN Lane 4: OPEN Lane 5: X Lane 6: X Lane 7: X Lane 8: X

Auto Update

Reset: IDLE Start: IDLE

Reset SmartLine

Get Results

1=4.176d 2=4.019c 3=3.000a 4=3.582b

This is the display as it appears when there are 4 lanes and communication has been established successfully. Waving a hand under the sensors triggered the timer and the 'Get Results' button was pressed in order to see the result string from the timer.

If you have any questions, please call us at (845) 229-5189.

Setup the SmartLine Timer for use with various race management software packages.

RaceTender –

Select the SmartLine Timer in the RaceTender's Race Setup Track Configuration screen. The RaceTender Software will send the appropriate commands to setup the SmartLine Timer. You may set the photo finish delay times at any time during the race.

GrandPrix Race Manager –

Use the DTX000 command protocol:

SmartLine Setup Program –

In the 'Output Format Options' box set the checkbox to use DTX000 mode. The SmartLine Timer will automatically restart in the DTX000 mode.

GrandPrix Race Management Program –

Select DTX000 Series to use the DTX000 command protocol in the serial port hardware setup section.

DerbyMaster and RaceView –

SmartLine Setup Program –

In the 'Output Format Options' box set the checkbox to use DTX000 mode. The SmartLine Timer will automatically restart in the DTX000 mode.

Race Management Program –

Select DTX000 mode.